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Subject: \*SOLVED\* Random Crashes

Posted by [webmotive](#) on Mon, 19 Feb 2007 12:00:23 GMT

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Hi Members of the Support Forum,

i post this here and not at the Bugs section - because iam not really sure we are talking about a bug or some missconfiguration on our side.

We are using OpenVz since some weeks and have random crashes of the hole machine. We made sure that the hardware is not the cause by moving all the stuff to a different server (same hardware config though).

Now we are sure now that it is not a memory or cpu failure. But it could still be some kind of conflict between some hardware components and the VZKernel ...?

There are no debug messages in the syslog that are of any use ...

When the mashine crashes it is still possible to ping it for a while. After that it is not even possible to ping it any more.

We had to change the beancounters very much - otherwise we were getting errors about open,files etc, (see further down)

The crash seems to occur when load goes up. Any Ideas where we should start to search? Monitoring the beancounters did not give us a hint.

At the moment we definitely cant use the system for production ...

Very strange all together ...

Thanks

Christian

Kernel:

Linux version 2.6.18-8+openvz.2-007.1 (root@Nitrox) (gcc version 4.1.2 20061115 (prerelease) (Debian 4.1.1-21)) #1 SMP Fri Jan

lspci:

00:00.0 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.1 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.2 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.3 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.4 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.7 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:01.0 PCI bridge: VIA Technologies, Inc. VT8237 PCI bridge [K8T800/K8T890 South]

00:09.0 RAID bus controller: 3ware Inc 7xxx/8xxx-series PATA/SATA-RAID (rev 01)

00:0b.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8169 Gigabit Ethernet (rev 10)  
 00:0d.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8169 Gigabit Ethernet (rev 10)  
 00:0f.0 RAID bus controller: VIA Technologies, Inc. VIA VT6420 SATA RAID Controller (rev 80)  
 00:0f.1 IDE interface: VIA Technologies, Inc. VT82C586A/B/VT82C686/A/B/VT823x/A/C PIPC Bus Master IDE (rev 06)  
 00:10.0 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)  
 00:10.1 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)  
 00:10.2 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)  
 00:10.3 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)  
 00:10.4 USB Controller: VIA Technologies, Inc. USB 2.0 (rev 86)  
 00:11.0 ISA bridge: VIA Technologies, Inc. VT8237 ISA bridge [KT600/K8T800/K8T890 South]  
 00:18.0 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] HyperTransport Technology Configuration  
 00:18.1 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] Address Map  
 00:18.2 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] DRAM Controller  
 00:18.3 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] Miscellaneous Control  
 01:00.0 VGA compatible controller: Matrox Graphics, Inc. MGA G400/G450 (rev 85)

cat /proc/user\_beancounters

Version: 2.5

| uid | resource     | held      | maxheld   | barrier    | limit      | failcnt |
|-----|--------------|-----------|-----------|------------|------------|---------|
| 0:  | kmemsize     | 204025604 | 269105689 | 2147483647 | 2147483647 | 0       |
|     | lockedpages  | 0         | 0         | 2147483647 | 2147483647 | 0       |
|     | privvmpages  | 5998      | 41589     | 2147483647 | 2147483647 | 0       |
|     | shmpages     | 1289      | 1625      | 2147483647 | 2147483647 | 0       |
|     | dummy        | 0         | 0         | 2147483647 | 2147483647 | 0       |
|     | numproc      | 62        | 113       | 2147483647 | 2147483647 | 0       |
|     | physpages    | 3201      | 30419     | 2147483647 | 2147483647 | 0       |
|     | vmguarpages  | 0         | 0         | 2147483647 | 2147483647 | 0       |
|     | oomguarpages | 3210      | 30428     | 2147483647 | 2147483647 | 0       |
|     | numtcpsock   | 5         | 12        | 2147483647 | 2147483647 | 0       |
|     | numflock     | 2         | 4         | 2147483647 | 2147483647 | 0       |
|     | numpty       | 2         | 2         | 2147483647 | 2147483647 | 0       |
|     | numsiginfo   | 1         | 5         | 2147483647 | 2147483647 | 0       |
|     | tcpsndbuf    | 66720     | 284672    | 2147483647 | 2147483647 | 0       |
|     | tcprcvbuf    | 81920     | 185264    | 2147483647 | 2147483647 | 0       |
|     | othersockbuf | 33360     | 408016    | 2147483647 | 2147483647 | 0       |
|     | dgramrcvbuf  | 0         | 11696     | 2147483647 | 2147483647 | 0       |
|     | numothersock | 32        | 49        | 2147483647 | 2147483647 | 0       |
|     | dcachesize   | 1614538   | 2428481   | 2147483647 | 2147483647 | 0       |
|     | numfile      | 975818    | 1299251   | 2147483647 | 2147483647 | 0       |
|     | dummy        | 0         | 0         | 2147483647 | 2147483647 | 0       |
|     | dummy        | 0         | 0         | 2147483647 | 2147483647 | 0       |
|     | dummy        | 0         | 0         | 2147483647 | 2147483647 | 0       |
|     | numiptent    | 31        | 31        | 2147483647 | 2147483647 | 0       |

```
cat /proc/cpuinfo
processor      : 0
vendor_id     : AuthenticAMD
cpu family    : 15
model         : 43
model name    : AMD Athlon(tm) 64 X2 Dual Core Processor 4600+
stepping      : 1
cpu MHz       : 2399.830
cache size    : 512 KB
physical id   : 0
siblings      : 2
core id       : 0
cpu cores     : 2
fdiv_bug      : no
hlt_bug       : no
f00f_bug      : no
coma_bug      : no
fpu           : yes
fpu_exception : yes
cpuid level   : 1
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt lm 3dnowext 3dnow pn1 lah_f_lm cmp_legacy ts
fid vid ttp
bogomips      : 4805.43
```

```
processor      : 1
vendor_id     : AuthenticAMD
cpu family    : 15
model         : 43
model name    : AMD Athlon(tm) 64 X2 Dual Core Processor 4600+
stepping      : 1
cpu MHz       : 2399.830
cache size    : 512 KB
physical id   : 0
siblings      : 2
core id       : 1
cpu cores     : 2
fdiv_bug      : no
hlt_bug       : no
f00f_bug      : no
coma_bug      : no
fpu           : yes
fpu_exception : yes
cpuid level   : 1
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
```

mmx fxsr sse sse2 ht syscall nx mmxext fxsr\_opt lm 3dnowext 3dnow pni lahf\_lm cmp\_legacy ts  
fid vid ttp  
bogomips : 4799.54

appropriate kernel config for openvz  
CONFIG\_VZ\_QUOTA=m  
# CONFIG\_VZ\_QUOTA\_UNLOAD is not set  
CONFIG\_VZ\_QUOTA\_UGID=y  
# OpenVZ  
CONFIG\_VZ\_GENCALLS=y  
CONFIG\_VZ\_DEV=m  
CONFIG\_VZ\_WDOG=m  
CONFIG\_VZ\_CHECKPOINT=m

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